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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/562,444	12/27/2005	Masashi Date	2005-2009A	3482
513 7590 06/15/2007 WENDEROTH, LIND & PONACK, L.L.P.			EXAMINER	
2033 K STREE		L.I.,	NWAONICHA, CHUKWUMA O	
SUITE 800 WASHINGTO	N, DC 20006-1021		ART UNIT	PAPER NUMBER
			1621	
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		·	06/15/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/562,444	DATE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Chukwuma O. Nwaonicha	1621				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 2a)□ This action is FINAL. 2b)⊠ This 3)□ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro					
Disposition of Claims						
4) ⊠ Claim(s) <u>1-6</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-6</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or						
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accention and accention and accention and accention are declaration in the specific and accention are declaration in the specific and accention are declaration as objected to by the Examine 11) The oath or declaration is objected to by the Examine 12. **The Specification** 13. **The Specification** 14. **The Specification** 15. **The Specification** 16. **The Specification** 16. **The Specification** 17. **The Specification** 18. **The Specification** 19. **The Specification** 10. **The Specification** 10. **The Specification** 10. **The Specification** 11. **The Specification** 11. **The Specification** 11. **The Specification** 12. **The Specification** 13. **The Specification** 14. **The Specification** 15. **The Specification** 16. **The Specification** 16. **The Specification** 17. **The Specification** 17. **The Specification** 18. **The Specification** 19. **The Specification** 10. **The Specification** 11. **The Specification** 11. **The Specification** 12. **The Specification** 13. **The Specification** 13. **The Specification** 14. **The Specification** 14. **The Specification** 15. **The Specification** 16. **The Specification** 17. **The Specification**	epted or b) objected to by the I drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate				

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DETAILED ACTION

Claims 1-6 are pending in the application.

Priority

Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d).

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-3 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1-3 are rejected because of the parenthesis in claim 1, and parenthesis are considered indefinite. Correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 4-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Takahashi et al., {JP 06345726, See Abstract}.

Takahashi et al. disclose applicants claimed cationic polymerization initiators.

Applicants have claimed a product by way of a product by process claim. The Examiner did not give any patentable weight to the process step. See cationic polymerization initiators in the abstract, and MPEP 2113.

Claims 4-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Abe et al., {JP 09012615, See Abstract}.

Abe et al. disclose applicants claimed cationic polymerization initiators, the composition and the cured product. Applicants have claimed a product by way of a product by process claim. The Examiner did not give any patentable weight to the process step. See cationic polymerization initiators in the abstract, and MPEP 2113.

Claims 4-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Takahashi et al., {JP 08325225, See Abstract}.

Takahashi et al. disclose applicants claimed cationic polymerization initiators (a monosulfonium salt), the composition and the cured product. Applicants have claimed a product by way of a product by process claim. The Examiner did not give any patentable weight to the process step. See cationic polymerization initiators in the abstract, and MPEP 2113.

Claims 4-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Abe et al., {US 5,789,395}.

Abe et al. disclose applicants claimed cationic polymerization initiators, the composition and the cured product. Applicants have claimed a product by way of a product by process claim. The Examiner did not give any patentable weight to the

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process step. See cationic polymerization initiators on columns 2-4 and 9-12, and MPEP 2113.

Claims 4-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Akhtar it al., {New synthesis of aryl-substituted sulfonium salts and their applications in photoinitiated cationic polymerization, Chemistry of Materials (1990), 2(6), 732-737}.

Akhtar et al. disclose applicants claimed cationic polymerization initiators.

Applicants have claimed a product by way of a product by process claim. The Examiner did not give any patentable weight to the process step. See cationic polymerization initiators in the abstract, and MPEP 2113.

Allowable Subject Matter

Claims 1-3 are objected but would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

Reason For Allowance

The following is an examiner's statement of reasons for allowance: A search of the prior art failed to uncover any reference that anticipates or renders obvious a method of producing cationic polymerization initiators (a monosulfonium salt) as claimed by applicants.

The closest prior arts are Akhtar it al., {New synthesis of aryl-substituted sulfonium salts and their applications in photoinitiated cationic polymerization, Chemistry of Materials (1990), 2(6), 732-737} and Abe et al., {JP 08325225, See Abstract}. Akhtar it al. teach the method of making catalysts for photochemical

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polymerization by reacting dialkyl and diaryl sulfoxides with aromatic compunds in the presence of P2O5/MeSO3H.

On the other hand, Abe et al. teach a process of preparing a sulfonium salts useful as cationic photopolymerization initiators by reacting diaryl sulfoxides with aryl alkyl (thio)ethers or polyaryl sulfides in the presence of polyphosphoric acid, followed by reacting the resulting sulfonium complexes with hexafluoro alkali metal salts. Thus, Ph₂SO and Ph₂S were heated with A at 120° for 5 h, then reacted with KPF6 in H2O for 1 h to give 90% (4-thiophenoxyphenyl)diphenylsulfonium hexafluorophosphate.

Applicants process for producing cationic polymerization initiators differs from the process taught by Akhtar it al. and Abe et al. in that both Akhtar it al. and Abe et al. teach away from applicants claimed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chukwuma O. Nwaonicha whose telephone number is 571-272-2908. The examiner can normally be reached on Monday thru Friday, 8:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Johann R. Richter can be reached on 571-272-0646. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chukwuma O. Nwaonicha, Ph.D. Patent Examiner

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J. PARSA PRIMARY EXAMINER

FOR

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Johann R. Richter, Ph.D., Esq. Supervisory Patent Examiner, Technology Center 1600